

Stablex-Reutter Inc.

Ninth and Coonet Streets
P.O. Box 499
Camden, New Jersey 08101

SDMS Document



67611

Phone: 609 841 1700
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NJDEP
Solid Waste Division
Test Report No. SR6926
June 29, 1982
Page 3 of 4

Metals Analysis

Sample and Designation

Constituent	SR6926-1** AI158A	SR6926-3** AI159A
Asenic	6.1	0.2
Barium	<10	<10
Cadmium	290	<1.0
Chromium	1100	<5
Cobalt	530	12
Mercury	5.8	0.30
Selenium	2.4	<0.2
Nickel	67	<1.0
Silver	6.5	<1.0

Because the EPA Extraction Procedure as defined in the May 19, 1980 edition of the Federal Register is not applicable to samples of an organic nature or those not filterable under the conditions of the test, the sample itself was analyzed for the EP Toxicity inorganic parameters. These results are presented for limited comparison purposes only. The results are expressed in micrograms of constituent per gram of sample.

Quality Assurance Data

SR6926-2 + Spike****

Constituent	SR6926-1*** AI158A	Amount of Spike	% Recovery
Asenic	6.8	1.0	92
Barium	<10	1.0	100
Cadmium	330	1.0	100
Chromium	1200	---	---
Cobalt	540	1.0	85
Mercury	5.6	0.10	100
Selenium	2.9	1.0	100
Nickel	63	---	---

Duplicate Analysis
Spike added to EP Extract

000041

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II. Analytical Results

The parameters analyzed and results are delineated in the following tables. The interlaboratory variability of the parameters analyzed in the type of sample matrix submitted has not been established by EPA, and is probably at least $\pm 20\%$. S-R is currently evaluating the variability of all tests performed for NJDEP in different types of matrices.

AI159A - Sample taken from

AI158A - Sample taken
from leaking tank #105
4-21-82

Miscellaneous Analysis leaking tank trailer TR-14.
on 4-21-82

Sample and Designation

Parameter	SR6926-1 AI158A	SR6926-2 AI159A	SR6926-3 AI160A
Flash Point, OF closed cup	134	127	<45
Oil and Grease, %	13	0.61	>90

EPA-EP Extraction

Metal Analysis

Sample and Designation

Constituent	SR6926-2* AI159A	EP Toxicity Limits, mg/l
Arsenic	0.003	5.0
Barium	0.12	100.0
Cadmium	0.08	1.0
Chromium	<0.05	5.0
Lead	<0.05	5.0
Mercury	<0.002	0.2
Selenium	<0.002	1.0
Nickel	0.10	---
Silver	<0.01	5.0

* Results are expressed in milligrams of constituent per liter of EP extract.

000042

On April 10, 1980, I inspected the Scientific Chemical Processing Facility at 216 Paterson Plank Road, Carlstadt. I met with Mr. Max Barnes and he accompanied me during the inspection tour. During the inspection, I observed the following:

1. The entire left side of the facility has crushed stone spread on the ground. Ponding of surface water has been greatly reduced. Only a few puddles were present during this inspection:
2. The depression around the tank farm contained several inches of water, probably due to recent rains. All the tanks were standing in the water. At the time of inspection this standing water was being pumped to the sewer connection. This discharge is metered for volume, but not monitored for any contaminants. Mr. Barnes stated that the sewer authority spot checks the discharge. Mr. Barnes stated that the materials contained in tanks has not changed. He stated that sampling and testing is underway in Newark to establish the exact identity of the material. Mr. Barnes stated the materials to be mostly heavy paint sludges containing large amounts of solids.

I also observed that a spill had occurred before I arrived and I saw several men shoveling contaminated soil and a red liquid into a 55 gallon drum. I also noted that a quantity of this liquid had spilled into the water within the depression of the tank farm. It was previously noted that this same water was being pumped to discharge to the sewer connection. I asked Mr. Barnes if he planned on shutting off the pump to prevent the discharge of this contaminated water. He stated he would do so, but he failed to have it shut off before I left approximately 50 minutes later. Mr. Barnes identified the red liquid as product that has already been processed and is to be sold as a fuel. The material emitted a solvent/type odor in the immediate area of the spill.

3. I observed that all of the rusted and deteriorating drums containing waste materials have been removed. Mr. Barnes stated that all the drums have been taken to the Newark facility. He stated they were concentrating on getting Carlstadt cleaned up.
4. At this time I observed the still to be operating and the second processing unit, the thin film evaporator not to be operating. Mr. Barnes stated that they continue to process a methanol, water, and phosphoric acid waste stream with the still, while the thin film had not operated for several days. Mr. Barnes stated the thin film operates only 1-2 days per week. The thin film area had been cleaned within the diked area. As well, a dike had been constructed at the rear of the area. The drum platform had also been cleaned. There were approximately 40 drums of what Mr. Barnes represented as product on the pad.

- 2
5. I again observed a seepage from the creek bank into the Peach Island Creek. The seepage appears to be an oily type liquid producing a multicolored sheen on the surface of the water.

George Smajda
George Smajda

h j g

000044

SCP, Carlstadt - Findings

On May 19, 1979 an inspection of the Scientific Chemical Processing facility was conducted. This facility is located on Paterson-Plank Road, Carlstadt, New Jersey. Mr. Mac Barnes accompanied me during the inspection. Mr. Herb Case met us after the inspection tour to answer any questions. The following observations were made. See the sketch for corresponding physical locations.

1. This is the tank farm area. The tank farm is one-two feet below surface elevation. The containment area is not lined. Liquids are free to seep into the ground in this area. Eighteen tanks are located here. Mr. Barnes said all contained waste materials of various types, except for three which are empty. He said all materials stored in the remaining fifteen tanks are old waste materials without manifest, except of tanks 112 and 119 which are new waste for which there are manifest. I observed a brownish-red liquid within the tank farm area along one side of the contained area. Photograph #1 shows this liquid.
2. This area is where a distillation unit and boiler house are located. Trailers parked in this area are used as feeds and receivers for materials run through the still. The still has a small dike around the apparatus. The trailers have no secondary containment. Much of the stone covering the ground in this area, as well as the area inside the diked area is pink in color, possibly indicating a past spill. A liquid can be seen seeping from the creek bank directly behind the boiler house. Photograph #2 shows this seepage.
3. This is a staging platform holding empty and full drums containing waste materials. The platform contained about 100 empty drums, and about 160 full drums. Manifest #58358 was observed on about 60 drums. Although the platform slants inward to prevent run-off the sides of this platform are completely stained with materials that have run down the walls of this platform. Two trailers at the rear of the platform contain old leakers pulled from the yard. One trailer has drums with manifest #89107 marked on them. The three trailers at the front of the platform contain sludges generated from the distillation processes on site.
4. The thin film evaporator and adjacent tank farm are all diked. Various colored liquids could be seen in the thin film diked area. No leakage was seen in the tank farm area. Photographs #3 and #4 show the general area. The thin film area is messy and poorly maintained. Housekeeping is poor. Drums, tools and pieces of scrape are scattered about the general area.
5. This is a drum storage area directly in front of the thin film unit. There are approximately 1500-2000 drums stored on the ground in this area. Mr. Barnes said this material was on-site prior to May 1, 1978 and had no manifest. He said these drums had been recently moved to this area to segregate materials. Red and black liquids were observed in several areas of this storage area. Photograph #5 shows one of these spill areas. These drums are stored directly on the ground, with no containment present. The drums are stacked poorly, creating the possibility of drums falling and spilling their contents onto the ground. Many of the drums are rusted and in poor condition. A sludge box is located in this area to empty drums.

6. This is the second major drum storage area, located adjacent to the tank farm. Approximately 1300 drums are stored here. Like the first storage area, all drums are stored directly on the ground without proper containment. Many of these drums are rusted and in poor condition, leaking their contents onto the ground in the area. Various colored liquids including black and yellow, can be seen in numerous areas of this drum storage area. These drums are also old drums without manifest according to Mr. Barnes.

George Smajda
George Smajda

hjc

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MEMONEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO Bob Reed through Tony Altieri T.A.
FROM Rich Cahayla-Wynne and Mox Tan MT DATE January 22, 1979
SUBJECT Scientific Chemical Processing - Carlstadt, NJ - Hazardous Waste Spill
Inspection and Chain of Custody Sampling of January 19, 1979

On January 19, 1979, we were informed of a possible hazardous waste spill at the Scientific Chemical Processing plant at 216 Paterson Plank Road, Carlstadt.

At about 1000 hours we arrived at the location of the plant, but were unable to enter because the property is completely surrounded by a fence and there was no one in sight to let us in. After walking around the plant perimeter and noting two permitted cooling water discharges into Peach Island Creek, we called Bob Reed who contacted the firm at 411 Wilson Ave., Newark, (201) 589-7777. SCP sent Herbert Case, who escorted us through the plant at 1130 hours.

According to Mr. Case, on the night of the 18th, there was an unreported spill of unknown quantity somewhere within their plant premises. Mr. Case was not able to provide details as to location, composition or time of spill. He said that the employee who did not report the spill as required by company rules was terminated, but will be questioned for more details.

The spill apparently took place within the diked area underneath one of the thin film evaporators used to distill solvents from chemical wastes. The cooling water from the thin film evaporator is discharged to a pipe with an opening at ground level within the diked area. Two employees from SCP were manually removing what apparently was spilled sludge material. We collected Sample #C49947 of this sludge at 1215 hours from the floor of the diked area near the opening to the cooling water discharge pipe. The sample was reddish brown, viscous and had an extremely strong chemical odor.

The cooling water discharge pipe runs underground for about 100 feet and reappears from the river bank about 300 feet east of Gotham Parkway. Mr. Case did not know whether this discharge was DIS 001 or DIS 002 of permit #NJ 0003212. We sampled the effluent at 1155 (Sample #C49946). The sample was clear and had no detectable odor.

Floating on the surface of the creek near the outfall pipe was accumulated sludge similar in appearance to the material spilled within the diked area. We sampled the surface water containing some of this sludge at 1205 hours, (Sample #C49945). The sample had a distinct chemical odor similar to that of the spilled material within the diked area.

Approximately 50 feet east of the discharge pipe was a large amount of reddish brown sludge on the surface of the ice. We sampled this at 1230 hours, (Sample #C49948). This sludge appeared identical to the sludge floating near the outfall pipe and to the sludge within the diked area. The sample was viscous and had the same extremely strong chemical odor.

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We left the SCP area at 1235 hours and returned to the office. All of the above samples were collected using a chain of custody which was transferred to Tom Harrington at 1430 hours. Mr. Harrington transported the samples to the lab at that time.

A33/A44:G19/G25

000048

Municipality Carlstadt
 Plant Scientific Chemical Processing
 Stream Peach Island Creek
 Location 216 Peterson Plank Rd
 Description and Remarks: Cooling water discharge

Collected by W. J. H. - W. J. H. - W. J. H.
 Residual Chlorine Immediate
 Developed _____
 Flow Rate _____
 Temperature _____

ITEMS CIRCLED BELOW ARE UNSATISFACTORY

Dilutions Requested
(Bacteriological)

10	1	10.1	10.2	10.3	10.4	10.5	10.6

LABORATORY RESULTS
BACTERIOLOGICAL

Coliform MPN/100 ml. _____ (Confirmed Test); Fecal Coliform MPN/100 ml. _____
 Fecal Streptococci: MPN/100 ml. _____ Other _____

CHEMICAL AND PHYSICAL ANALYSES (mgs./liter, unless otherwise noted)

Quantitative Analysis

Color (units)	Chloride	Sulfate	Other Determinations
Odor (cold)	Suspended Solids	Grease & Oil	Organic Scan
Turbidity (units)	Ash	Cyanide	
pH	Total Solids	Chromium Total	Toluene 265 ppb
Acidity to pH 4	Ash	Chromium Hex.	m,p xylene 30 ppb
Alkalinity to pH 4	Total PO ₄	Ortho - PO ₄	
Nitrite N	MBAS	Copper	
Nitrate N	Phenols	Lead	ND = NON-DETECTABLE; I. E. BELOW DETECTABLE LIMITS RE MEMO # 4
Ammonia N	COD	Arsenic	
Total Kjel. N	Iron	Zinc	FEB 1 1979

BIOCHEMICAL OXYGEN DEMAND (mgs./liter)

REPORT SUBMITTED
DIV. OF LABORATORIES & EPI.

Field D.O.		Lab. D.O.			Seed Required:							
					Yes				No			
Sample Conc. %	PLEASE CIRCLE	0.1	0.2	0.5	1.0	2.0	5.0	10	25	50	75	100
BOD ₅												

PART 1-CHEMISTRY COPY

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NEW JERSEY STATE DEPARTMENT OF HEALTH
STREAM OR WASTEWATER ANALYSIS

Time & Date Received _____
By Labs _____
Lab No. _____

FIELD INFORMATION

PLEASE TYPE OR PRINT
WITH BALLPOINT PEN

Date of Collection 9-16 19 79
Hour 9:25 A.M. P.M.
Composite Period _____ Interval Grds
Collected by Arundel
Residual Chlorine: _____
Immediate _____
Developed _____
Flow Rate _____
Temperature 26°C

Sample No. 0-11408
Municipality Garfield
Plant Scientific Chem. Plant
Stream P. Ore
Location 216 Peterson Plank
Description and Remarks: DIS CO2

ITEMS CIRCLED BELOW ARE UNSATISFACTORY

Dilutions Requested
(Bacteriological)

10	1	10 ⁻¹	10 ⁻²	10 ⁻³	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶

LABORATORY RESULTS
BACTERIOLOGICAL

OCT 30 1979

Coliform MPN/100 ml. _____ (Confirmed Test); Fecal Coliform MPN/100 ml. _____
Fecal Streptococci: MPN/100 ml. _____ Other _____

COD acidified w/ H2SO4
Or. i. Zn. " w/ HNO3

CHEMICAL AND PHYSICAL ANALYSES (mgs./liter, unless otherwise noted)

Color (units)	Chloride	Sulfate	Other Determinations
Odor (cold)	Suspended Solids <u>3</u>	Grease & Oil	
Turbidity (units)	Ash	Cyanide	
pH <u>7.2</u>	Total Solids <u>2404</u>	Chromium Total <u>0.029</u>	
Acidity to pH 4	Ash	Chromium Hex.	
Alkalinity to pH 4	Total PO ₄	Ortho - PO ₄	ND = NON DETECTABLE I.E. BELOW DETECTABLE LIMITS RE MEMO # 4
Nitrite N	MBAS	Copper	
Nitrate N	Phenols	Lead	OCT 25 1979
Ammonia N	COD <u>31</u>	Arsenic	
Total Kj. N	Iron	Zinc <u>0.009</u>	REPORT SUBMITTED DIV. OF LABORATORIES & EPID

BIOCHEMICAL OXYGEN DEMAND (mgs./liter)

Field D.O.		Lab. D.O.			Seed Required:				Yes				No			
Sample Conc. %	PLEASE CIRCLE	0.1	0.2	0.5	1.0	2.0	5.0	10		25	50	75	100			
BOD ₅																

000030

Sample No. C 49945

Municipality Carlstadt
 Plant Scientific Chem. Processing
 Stream Peach Island Creek
 Location 216 Paterson Plank Rd

Hour 12:05 A.M. Johnson
 Composite Period Feb Interval _____
 Collected by Calhoun - Wayne J. Ford
 Residual Chlorine: Immediate
 Developed _____
 Flow Rate _____
 Temperature _____

Description and Remarks: Sample collected from Creek near the discharge sampled in C49946. South Bank of creek.

ITEMS CIRCLED BELOW ARE UNSATISFACTORY

Dilutions Requested
 (Bacteriological)

10	1	10.1	10.2	10.3	10.4	10.5	10.6

LABORATORY RESULTS
 BACTERIOLOGICAL

Coliform MPN/100 ml. _____ (Confirmed Test); Fecal Coliform MPN/100 ml. _____
 Fecal Streptococci: MPN/100 ml. _____ Other _____

CHEMICAL AND PHYSICAL ANALYSES (mgs./liter, unless otherwise noted)

Quantitative Analysis

Color (units)	Chloride	Sulfate	Other Determinations
Odor (cold)	Suspended Solids	Grease & Oil	<u>Organic Scan</u>
Turbidity (units)	Ash	Cyanide	<u>Chloroform 250 ppb</u>
pH	Total Solids	Chromium Total	<u>hex. conc. 42 ppb</u>
Acidity to pH 4	Ash	Chromium Hex.	<u>Trichloroethylene 200 ppb</u>
Alkalinity to pH 4	Total PO ₄	Ortho - PO ₄	<u>tetrachloroethylene 45 ppb</u>
Nitrite N	MBAS	Copper	<u>toluene 1250 ppb</u>
Nitrate N	Phenols	Lead	<u>m,p xylene 420 ppb</u>
Ammonia N	COD	Arsenic	<u>o-xylene 175 ppb</u>
Total Kjel. N	Iron	Zinc	

BIOCHEMICAL OXYGEN DEMAND (mgs./liter)

ND = NON-DETECTABLE; I. E. BELOW
 DETECTABLE LIMITS RE MEMO - 4

Field D.O.	Lab. D.O.	Seed Required:	Yes	No
Sample Conc. %	0.1 0.2 0.5	1.0 2.0 5.0	10 25 50	75 100
BOD ₅				

REPORT SUBMITTED

DIV. OF LABORATORIES & EPC

Municipality Carlstadt Collected by Carlstadt-Wayne / 10/11
 Plant Scientific Chemical Treating Residual Chlorine Immedia
 Stream Peach Island Creek Developed _____
 Location 216 Peterson Plank Rd Flow Rate _____
 Description and Remarks: Cooling water discharge Temperature _____

ITEMS CIRCLED BELOW ARE UNSATISFACTORY

Dilutions Requested
(Bacteriological)

10	1	10.1	10.2	10.3	10.4	10.5	10.6

LABORATORY RESULTS
BACTERIOLOGICAL

Coliform MPN/100 ml. _____ (Confirmed Test); Fecal Coliform MPN/100 ml. _____
 Fecal Streptococci: MPN/100 ml. _____ Other _____

CHEMICAL AND PHYSICAL ANALYSES (mgs./liter, unless otherwise noted)

Quantitative Analysis.

Color (units)	Chloride	Sulfate	Other Determinations
Odor (cold)	Suspended Solids	Grease & Oil	Organic Scan
Turbidity (units)	Ash	Cyanide	
pH	Total Solids	Chromium Total	toluene 265 ppb
Acidity to pH 4	Ash	Chromium Hex.	m,p xylenes 30 ppb
Alkalinity to pH 4	Total PO ₄	Ortho - PO ₄	
Nitrite N	MBAS	Copper	
Nitrate N	Phenols	Lead	ND = NON-DETECTABLE; I. E. BELOW DETECTABLE LIMITS RE MEMO # 4
Ammonia N	COD	Arsenic	
Total Kjel. N	Iron	Zinc	FEB 1 1979

BIOCHEMICAL OXYGEN DEMAND (mgs./liter)

REPORT SUBMITTED
DIV. OF LABORATORIES & EPID.

Field D.O.	Lab. D.O.	Seed Required:	Yes	No
Sample Conc. % PLEASE CIRCLE	0.1 0.2 0.5	1.0 2.0 5.0	10 25 50 75 100	
BOD ₅				

PART 1-CHEMISTRY COPY

H1916

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FIELD INFORMATION

OR PRINT
POINT PEN

Date of Collection 1/19 1979
Hour 1230 A.M. ✓ P.M. ✓
Composite Period Grub Interval _____
Collected by Tan
Residual Chlorine: _____
Immediate _____
Developed _____
Flow Rate _____
Temperature _____

Sample No. C 49948

Municipality Carlstadt
Plant Scientific Chem Processing
Stream Peach Island Creek
Location 216 Paterson

Description and Remarks: Collected from Sludge on surface of ice
North bank of creek opposite Sample # C49945.

ITEMS CIRCLED BELOW ARE UNSATISFACTORY

Dilutions Requested
(Bacteriological)

10	1	10.1	10.2	10.3	10.4	10.5	10.6
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LABORATORY RESULTS
BACTERIOLOGICAL

Coliform MPN/100 ml. _____ (Confirmed Test); Fecal Coliform MPN/100 ml. _____

Fecal Streptococci: MPN/100 ml. _____ Other _____

CHEMICAL AND PHYSICAL ANALYSES (mgs./liter, unless otherwise noted)

Quorit
Analysis

Color (units)	Chloride	Sulfate	Other Determinations
Odor (cold)	Suspended Solids	Grease & Oil	Organic Solids
Turbidity (units)	Ash	Cyanide	trichloroethylene 4.3
pH	Total Solids	Chromium Total	Benzene 5.0
Acidity to pH 4	Ash	Chromium Hex.	trichloroethylene 26.0
Alkalinity to pH 4	Total PO ₄	Ortho - PO ₄	MSPK 84.0
Nitrite N	MBAS	Copper	tetrachloroethylene 12.0
Nitrate N	Phenols	Lead	toluene 8.80
Ammonia N	COD	Arsenic	m-xylene 1.16
Total Kjel. N	Iron	Zinc	m-xylene 8.40

Styrene 4.00
Methyl ethyl ketone 52.00

BIOCHEMICAL OXYGEN DEMAND (mgs./liter)

Field D.O.		Lab. D.O.			Seed Required:					Yes			No			NON-DETECTABLE: I. E. BELOW DETECTABLE LIMITS: RE MEMO #		
Sample Conc. %	PLEASE CIRCLE	0.1	0.2	0.5	1.0	2.0	5.0	10	25	50	75	100						
BOD ₅													FEB 1 1974					

FIELD INFORMATION

PRINT
PENT PEN

Sample No. C 47747

Municipality Carlstadt
Plant Scientific Chem Processing
Stream Peach Island Creek
Location 216 Paterson Plank Rd

Description and Remarks: Collected from spills near thin film evaporator

Date of Collection 1/17 1979
Hour 12:15 A.M. P.M.
Composite Period Grab Interval _____
Collected by C. Hayler - Wynne
Residual Chlorine: _____
Immediate _____
Developed _____
Flow Rate _____
Temperature _____

ITEMS CIRCLED BELOW ARE UNSATISFACTORY

Dilutions Requested
(Bacteriological)

10	1	10 ⁻¹	10 ⁻²	10 ⁻³	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶
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LABORATORY RESULTS
BACTERIOLOGICAL

Coliform MPN/100 ml. _____ (Confirmed Test); Fecal Coliform MPN/100 ml. _____
Fecal Streptococci: MPN/100 ml. _____ Other _____

CHEMICAL AND PHYSICAL ANALYSES (mgs./liter, unless otherwise noted)

Quantitative Analysis

Color (units)	Chloride	Sulfate	Other Determinations
Odor (cold)	Suspended Solids	Grease & Oil	Organic Solids
Turbidity (units)	Ash	Cyanide	Trichloroethylene 400
pH	Total Solids	Chromium Total	Benzene 650
Acidity to pH 4	Ash	Chromium Hex.	trichloroethylene 400
Alkalinity to pH 4	Total PO ₄	Ortho - PO ₄	MDBK 2000
Nitrite N	MBAS	Copper	tetrachloroethylene 200
Nitrate N	Phenols	Lead	toluene 1800
Ammonia N	COD	Arsenic	m-xylene 210
Total Kjehl. N	Iron	Zinc	o-xylene 60

styrene 50
methyl ethyl ketone 800

BIOCHEMICAL OXYGEN DEMAND (mgs./liter)

5-D.O.	Lab. D.O.	Seed Required:	Yes	NO = 100% (or more) below REQUIREMENT
PLEASE CIRCLE	0.1 0.2 0.5	1.0 2.0 5.0	10 25 50 75 100	FEE : 1575

DEPARTMENT OF THE ARMY, CORPS OF ENGINEERS

APPLICATION FOR PERMIT TO DISCHARGE OR WORK IN NAVIGABLE WATERS AND THEIR TRIBUTARIES

2 S D O X W 2 000762

SECTION I. GENERAL INFORMATION

1. State N J	Application Number (to be assigned by Corps of Engineers) 2 S D O X W 2 000762
Div.	Type
Dist.	Sequence No.

2. Name of applicant and title of signing official
Scientific Chemical Processing, Inc.
Leif R. Sigmond, President

3. Mailing address of applicant
Scientific Chemical Processing, Inc.
216 Paterson Plank Road
Carlstadt, New Jersey 07072

4. Name, address, telephone number and title of applicant's authorized agent for permit application coordination and correspondence.
Leif R. Sigmond, President
Scientific Chemical Processing, Inc.
216 Paterson Plank Road
Carlstadt, New Jersey 07072
201 939-0467

NOTE TO APPLICANT: Refer to the pamphlet entitled "Permits for Work and Structures in and for Discharges or Deposits into Navigable Waters" before attempting to complete this form.

Required Information

- All information contained in this application will, upon request, be made available to the public for inspection and copying. A separate sheet entitled "Confidential Answers" must be used to set out information which is considered by the applicant to constitute trade secrets or commercial or financial information of a confidential nature. The information must clearly indicate the item number to which it applies. Confidential treatment can be considered only for that information for which a specific written request of confidentiality has been made on the attached sheet. However, in no event will identification of the contents and frequency of a discharge be recognized as confidential or privileged information.
- The applicant shall furnish such supplementary information as is required by the District Engineer in order to evaluate fully an application.
- If additional space is needed for a complete response to any item on this form, attach a sheet entitled "Additional Information." Indicate on that sheet the item numbers to which answers apply.
- Drawings required by items 20 and 21 should be attached to this application. Other papers which must be attached to this application include, if applicable, copies of a water quality certification or a written communication which describes water quality impact (see Item 22 and Item 10 of Section II below), the additional information sheet(s) in "c" above, and the confidential information sheet described in "a" above.

Fees

If any discharge or deposit is involved, an application fee of \$100 must be submitted with this application. An additional \$50 is required for each additional point of discharge or deposit.

Signature

- If a discharge is involved, an application submitted by a corporation must be signed by the principal executive officer of that corporation or by an official of the rank of corporate vice president or above who reports directly to such principal executive officer and who has been designated by the principal executive officer to make such applications on behalf of the corporation. In the case of a partnership or a sole proprietorship, the application must be signed by a general partner or the proprietor. Other signature requirements are discussed in the pamphlet.
- If no discharge is involved, an application may be signed by the applicant or his authorized agent.

Application is hereby made for a permit or permits to authorize the activities described herein. I certify that I am familiar with the information contained in this application, and that to the best of my knowledge and belief such information is true, complete, and accurate.

18 U.S.C. Section 1001 provides that:

Whoever, in any matter within the jurisdiction of any department or agency of the United States knowingly and wilfully falsifies, conceals or covers up by any trick, scheme, or device a material fact, or makes any false, fictitious or fraudulent statements or representations, or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than five years, or both.

FOR CORPS OF ENGINEERS USE ONLY

Acronym name of applicant
SCP

Are discharge structures

Date received, form not complete 3 Nov, '71
Date received, form complete but without certificate -- -- --
Date received, form complete -- -- --
Date of Cert./Ltr. -- day -- mo -- yr

Major? ☐ Minor? ☐ N/A? ☐
Date sent to EPA, form not complete 6 Dec, '71
Date sent to EPA, NOAA, D/I, AEC, FPC in complete form -- day -- mo -- yr

ENG FORM 4345
MAY 71

If structures exist, or dredging, filling or other construction will occur, the precise location of the activity must be described.

(Office use only)

25 D OXW

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000762

a. Name the corporate boundaries within which the structures exist or the activity will occur.

16. ^{State} New Jersey

17. ^{County} Bergen

18. ^{City or Town} Carlstadt

b. Name of waterway at the location of the activity

19. Peach Island Creek

20. Maps and sketches which show the location and character of each structure or activity, including any and all outfall devices, dispersive devices, and non-structural points of discharge, must be attached to this application.

21. For construction or work in navigable waters for which a separate permit is sought under 33 U.S.C. 403, the character of each structure must be fully shown on detailed plans to be submitted with this application. Note on the drawings those structures for which separate discharge information (Section II of this form) has been submitted.

22. List all approvals or denials granted by Federal, interstate, State or local agencies for any structures, construction, discharges or deposits described in this application.

Type of document

Id. No.

Date

Issuing Agency

NONE

23. Check if facility existed or was lawfully under construction prior to April 3, 1970. ☐

24. If dredging or filling will occur:

State the type of materials involved, their volume in cubic yards, and the proposed method of measurement.

N/A

25. Describe the proposed method of instrumentation which will be used to measure the volume of any solids which may be deposited and to determine its effect upon the waterway.

NONE

26. State rates and periods of deposition described in Item 25.

N/A

SECTION II. PLANT PROCESS AND DISCHARGE DESCRIPTION

1. Discharge described below is a. Present <input checked="" type="checkbox"/> b. Proposed new or changed <input type="checkbox"/>		2. Implementation schedule <u>N/A</u>		(Office use only) 2 S D O X W 2 000762	
Name of corporate boundaries within which the point of discharge is located. State _____ County _____				6. Discharge Serial No. City or Town _____ 001	
3. <u>New Jersey</u>		4. <u>Bergen</u>		5. <u>Carlstadt</u>	
State the precise location of the point of discharge. 7. Latitude <u>40° 45' 30"</u> Degrees: Min: _____ Sec: _____ <u>Tristate Transportation Comm. Coordinates</u> 8. Longitude <u>74° 04' 22"</u> Degrees: Min: _____ Sec: _____ <u>Y=501.0 74° 04' 22" X=194.0 22°</u>			9. Name of waterway at the point of discharge. <u>Peach Island Creek</u>		
10. Has application for water quality certification or description of impact been made? If so, give date: <div style="display: flex; justify-content: space-between;"> <div> Date <u>Dec. 3 1971</u> mo day yr </div> <div> Check if certificate is attached to form <input type="checkbox"/> </div> <div> Name Issuing Agency <u>Not Made</u> </div> </div>					
11. Narrative description of activity (include terms of general 4-digit Standard Industrial Classification, and specific manufacturing process). <u>Recovery and recycling of by-product and waste solvents and chemicals. (SIC 4930). Well water is pumped through condensers in distillation columns and then discharged.</u>					
12. Standard industrial classification number. <u>493</u>		13. Principal product. <u>Various solvents (methanol, toluene, etc.)</u>		14. Amount of principal product produced per day. <u>2,000 gals. per day</u>	
15. Principal raw material. <u>Well Water</u>		16. Amount of principal raw material consumed per day. <u>100,800 gals./day</u>		17. Number of batch discharges per day. <u>Continuous</u>	
18. Average gallons per batch discharge. <u>N/A</u>		19. Date discharge began. _____ mo _____ day <u>1963</u> yr		20. Date discharge will begin. _____ mo _____ day <u>N/A</u> yr	
21. Describe waste abatement practices. <u>NONE</u>					

Firm, execs indicted in chemical dumping

By STUART MARQUES

A North Jersey chemical processing firm and three of its officers were indicted yesterday on charges of dumping more than 100,000 gallons of dangerous chemical wastes into Newark's sewer system.

In a 34-count indictment, a state grand jury said Scientific Chemical Processing Inc. of Carlstadt and Newark, dumped acid, cyanide, flammable liquid and other dangerous wastes into Newark sewers in 1977 and 1978. Some of the wastes included known or suspected cancer-causing agents.

Authorities said about 5,000 gallons of cyanide waste were dumped into a trench 30 feet from an acid tank farm. If the acid had seeped into the cyanide, officials said, deadly cyanide gas would have formed.

Officials said some of the illegally

dumped wastes were so flammable they could have ignited in the presence of a spark at temperatures of 54 or 64 degrees. A chemical is considered flammable if it can be ignited below 200 degrees.

Edwin Stier, director of the state Division of Criminal Justice, identified the indicted officers as Leif Sigmond, 53, of Oceanport; Herbert Case, 35, of Dunellen and Mac Barnes, 38, of Bloomfield.

Sigmond is the president of Scientific Chemical, Case is the account executive and Barnes is operations manager.

They could not be reached for comment. A receptionist at the firm's Newark office said they were unavailable.

The indictment said the company and its officers conspired between June 1977 and July of last year to dump chemical wastes without permits, illegally dump the wastes into Newark's sewer

(Please turn to Page 22)

Firm, execs indicted in chemical dumping

(Continued from Page One)

system and "habitually" violated the law. Authorities said former Scientific employe Carmine Trezza Jr. is cooperating with authorities, as are several other past or present workers.

The company and each of the indicted officers were charged with one count of conspiracy, 16 counts of unlawful water pollution, 16 counts of creating a public nuisance and one count of using a building for an unlawful purpose.

Stier said the ongoing probe began last spring when two Newark policemen noted activity at the firm's Newark headquarters.

The building was placed under surveillance and a July 13, 1978, raid was ordered. The raiding party saw a Scien-

tific Chemical tanker truck dumping 5,000 gallons of untreated chemical wastes "directly into the sewer system," Stier said.

Assistant Attorney General Robert Winter said the firm dumped some of the wastes into trenches that led to city sewers operated by the Passaic Valley Sewerage Commission.

The indictment said the firm sometimes used metal or rubber pipes to dispose of the wastes from the plant to the sewer system.

A spokesman for Attorney General John Degnan said the illegally dumped wastes included 15,629 gallons of acid, 10,000 gallons of flammable solvents, 1,500 gallons of flammable liquids and 5,000 gallons of cyanide.

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IX Water Hydrological Information Cont.

Surface Water Cont.

Use and Classification of Surface Waters (DWR Classification, Irrigation Etc.)

X Geological Information

Soil/Bedrock Data

Depth	Description of Soil/Bedrock	Permeability (Note Water Tables)
5		
10		
15		
20		
Source of Information		

Indicate Depth When Greater than 20 feet

000060

X GEOLOGICAL INFORMATION (Cont.)

Note Any Relevant Geological/Topographical Information

Fault Zone

Slope Instability

Regulated Floodway

100 year flood plan

Other

Specify From Above

XI Permit Information

Permit Type (RCRA NPDES)	Issuing Agency	Permit Number	Date Issued	Expiration Date	In Compliance?		
					Yes	No	UNK

XII PAST REGULATORY OR ENFORCEMENT ACTION

Include Agency, Dates, Final Outcome, Legal Action, Etc.

000061

XIII SITE CLEAN-UP INFORMATION

Discuss Site As To Each Of The Below

Accessibility For Heavy Equipment

Proximity of Utilities (Phone, Water, Sewer, Elec.)

Spill Control Presently On Site

Material Presently On Site For Use (Gravel, Sand, Etc.)

Inspectors Suggestions For Clean-Up

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INSPECTOR'S COMMENTS

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Scientific Chemical Processing, Inc.

411 WILSON AVE
NEWARK, NEW JERSEY 07105
PHONE 201 589 7777

June 27, 1980

Dr. Ralph Pasceri
Chief, Bureau of Hazardous Waste
32 E. Hanover St.
Trenton, N.J. 08625

Dear Dr. Pasceri:

We are enclosing an inventory for our Carlstadt Plant as of June 25, 1980.

In order to remove products and make plans to proceed in an orderly manner to reduce inventories we suggest the following stepwise approach:

Step 1

Ship out recovered products.

1. Return 2500 gallons recovered methanol from T-12 tank to Harmon Colors, Haledon, N.J.
2. Ship 6500 gallons of recovered thinner from the thin film receiver and VTS-11 tank.
3. Return 41 X 55 gallon drums of recovered thinner to Custom Chemical, Elmwood Park, N.J.
4. Send 3000 gallons of recovered phosphoric acid from VTS-1 tank to Plant Food Products, Cranbury, N.J.
5. Return 3000 gallons in tank VTS-131 of crude methanol/phosphoric acid mixture to Harmon Color, or as an alternative separate the ingredients and return as in above 1 & 4. This is a one day operation and of course would be done under your monitoring.

Note: We would appreciate implementing the above action as quickly as possible to avoid evaporation of the solvents and to remove corrosive material from the individual storage vessels.

6. Use up 500 gallons of diesel fuel from VT-56 in the trucking operation.

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